

WHAT IS CLAIMED IS:

1. Adhesive application station (14) for binding stacked printed products (10) by means of a liquid or liquefiable adhesive (52), where the application station (14) comprises an adhesive discharge system (15) comprising:

(1) an application head (12) for the adhesive (52) with a slip surface (16) for the printed products (10), and an application nozzle (42) extending over the entire width (g) of the slip surface (16) with at least one outlet opening (20) for the adhesive;

(2) an adhesive reservoir (50); and

(3) means for generating a pressure for adhesive application, the improvement comprising:

the adhesive discharge system (15) further comprises, immediately adjacent to the outlet opening (20), a metering device (44, 45) which can be sealed by an actuator (130) and which, with the adhesive reservoir (50) formed as a pressure chamber and an integral accumulator (54), forms a pressure compensation system, where inside the accumulator (54) arranged proximate the application head (12) is formed means for acting directly on the adhesive reservoir (50), whereby after each adhesive discharge an automatic pressure compensation is guaranteed.

2. Adhesive application station (14) according to claim 1, wherein the metering device (44, 45) and the inside of the outlet openings form a tight-fitting, airtight seal.

3. Adhesive application station (14) according to claim 1, wherein the outlet opening (20) is between about 0.1 to 5 mm, deep.

4. Adhesive application station (14) according to claim 1, wherein the outlet opening (20) consists of an outlet slot (20) extending substantially over the entire width (g) of the slip surface (16) for the printed products (10).

5. Adhesive application station (14) according to claim 1, wherein the metering device (44, 45) is formed as a rotatable and longitudinally movable metering shaft (44) with an opening (46, 47) running diagonally.

6. Adhesive application station (14) according to claim 1, wherein the metering device (44, 45) is formed as a longitudinally movable metering body (45) and has several longitudinal channels (134), and the outlet openings (20) are formed as slots interrupted by webs (136).

7. Adhesive application station (14) according to claim 1, wherein in the accumulator (54) are formed means acting on the adhesive reservoir (50) selected from the group consisting of pneumatic means, hydraulic means, electromagnetic means and mechanical means.

8. Adhesive application station (14) according to claim 7, wherein a pressure cylinder (56) acts by means of the accumulator (54) by way of a plunger (58), directly on the adhesive (52) in the adhesive reservoir (50).

9. Adhesive application station (14) according to claim 1, wherein in one of the application head (12) and adhesive reservoir (50) is arranged at least one sensor-controlled heating cartridge (102).

10. Process for operation of an adhesive application station (14) according to any one of claims 1 to 9, comprising passing all the adhesive from the reservoir to the outlet opening (20) without contacting the adhesive with air.

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